National Public Safety Broadband Network Presentation to the Digital Arizona Council

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Public Safety Interoperable Communications Office

Outline

- Overview of the National Public Safety Broadband Network
  - Key component of H.R. 3630
  - Timeline
  - Funding
  - Architecture Options
  - Fees, Public/Private Partnerships and Shared Assets
- Arizona's Involvement
  - Waiver Recipient Mesa TOPAZ – one of 21 nationwide
  - Governor's staff briefing
  - The Arizona Public Safety Broadband Network (AZPSBN)Plan
  - Formation of the AZPSBN Working Group
- Recommended Resources

OVERVIEW OF THE NATIONAL PUBLIC SAFETY BROADBAND NETWORK (NPSBN)

National Public Safety Broadband Network

On February 22, 2012, H.R. 3630 was signed into law. Key Features of the legislation include:

- Allocates the "D-Block" spectrum to Public Safety

- Forms First Responder Network Authority (FirstNet)
  - Responsible for build out and maintenance of a national NPSBN
  - Responsible for working with local jurisdictions to define boundaries, roles and responsibilities

- Authorizes auction of reclaimed radio/TV frequency with funding going toward the NPSBN build-out, related programs and deficit reduction

HR 3630 Timeline

- **FCC – Public Safety Interoperability Board (PSIB)**
  - Group formed by 3/22/2012 (30 days) – *completed on schedule*
  - Network Plan and minimum interoperability requirements completed by 5/22/2012 (90 days)
- **FirstNet**
  - Group formed by 8/22/2012 (180 days)
  - After 8/22/2012 - FirstNet will develop individual state RFPs based on Network Plan developed by PSIB
  - RFPs delivered to each state (date NOT specified)
- **States**
  - Opt-out Decision by Governors (90 days after receipt of RFPs); If do not Opt-out, automatically included
  - If Opt-out, then develop a State Plan (180 days after Opt-out)
  - If Opt-out, FCC (not FirstNet) will accept or reject the State Plan after submitted by the state (date of decision NOT specified)
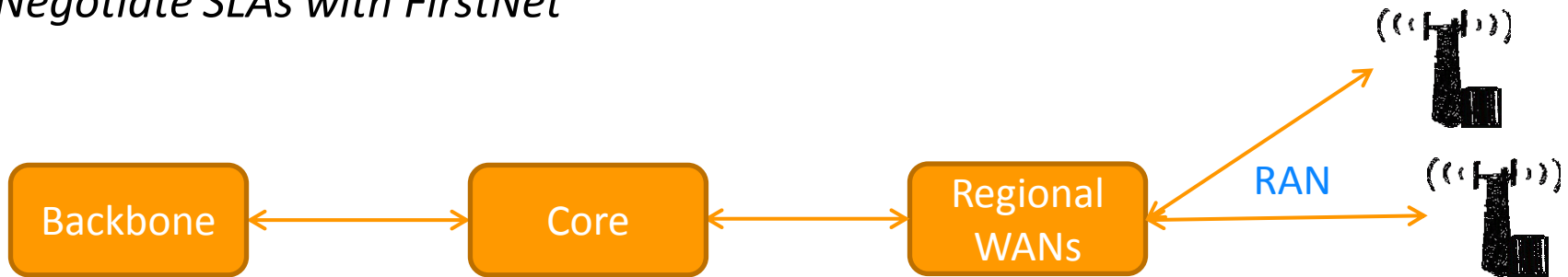
Funding

- $135M for State and Local Implementation Grant Program – **Guidelines and Timing NOT yet established**
  - For State, regional, Tribal and local jurisdictions to identify, plan and implement the NPSBN with regards to coverage, siting, and other needs
  - 20 percent match required, unless waived by the National Telecommunications and Information Administration (NTIA)
  - These grants must be coordinated through a single, state-certified officer or governmental body (*PSIC*)

- $300 million to the National Institute of Standards and Technology (NIST) Public Safety Communications Research (PSCR) Program for research and development

- $7B for the Network Construction Fund
  - FirstNet can borrow up to $2B upfront with the remainder coming from frequency auctions
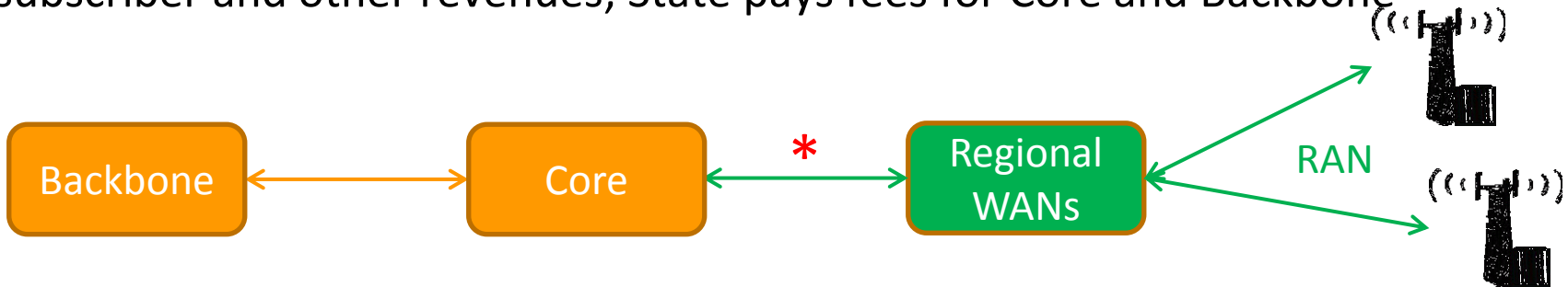 - Unclear how much will be available to states

Architecture Options

Opt In (Default) – State pays for User Equipment (UE); State pays fees for rest of the network (RAN, Regional WANs, Core & Backbone); *Negotiate SLAs with FirstNet*

Backbone ⟷ Core ⟷ Regional WANs — RAN

Opt Out – State pays for UE, RAN and Regional WANs; NTIA Grants (80/20) are available; Enables maintenance / expansion based on subscriber and other revenues; State pays fees for Core and Backbone

Backbone ⟷ Core ⟷ * Regional WANs — RAN

Fees

- The NPSBN will be permitted to generate revenues.

- The total amount of fees collected may not exceed the amount necessary to cover the cost of maintaining the network. This applies to FirstNet (Opt-in) or the State (Opt-out).

- The network operator (FirstNet or the State) is authorized to assess and collect:
  - Network user subscription fees to construct, manage and operate the network
  - Fees resulting from public/private partnerships (spectrum)
  - Backhaul services fees
  - Equipment access fees from entities for access to, or use of, any owned by the network owner (towers, backhaul conduit, etc.)

Shared assets

- Although it is speculation at this point, it would seem reasonable that the shared use of State and Local infrastructure assets could be used as an "in kind" negotiation chip for either greater coverage or reduced network fees.

- Although this will present valuable opportunities in the way of funding, network infrastructure and maintenance support, there will be constraints as FirstNet works through the issues of: who can be on the network (specifically the wireless D-block spectrum); policies and standards surrounding dynamic and preemptive priority; and finally what forms of public/private partnerships are acceptable

Discussion

Questions about the

National Public Safety Broadband Network

or H.R. 3630?

THE ARIZONA PUBLIC SAFETY BROADBAND NETWORK PLAN

Mesa TOPAZ Status

- The responses to Mesa's RFP were due February 16, 2012; bids were received from Alcatel Lucent, Motorola and Raytheon.

- RFP review team kickoff meeting was March 12, 2012 and they have met every Thursday since.

- The team plans to complete the RFP review process within a couple of weeks and will proceed to follow-up questions for the vendors and/or a best and final phase.

- Conundrum: Mesa and the other waiver recipients may have to rethink the planned architecture due to the conceptual framework defined in H.R. 3630 which specifies that all core components are part of the NPSBN network and are not part of the State's portion of the network. However, it is unlikely that the NPSBN cores will available for an estimated 18 -24 months.

State's Role

- Identify a single agency to work with FirstNet/NTIA

  - The Public Safety Interoperable Communication Office (PSIC)

- Develop a plan for the best use of the State and Local Implementation Grant Program

- Work with FirstNet to evaluate the State's needs for coverage and integration into the NPSBN, while being creative with infrastructure sharing and possible public/private partnerships

Governor's Staff Briefing

- March 13, 2012 – ADOA, ASET, AZDOHS, DPS and PSIC met with the Governor's staff:
  - Reviewed H.R. 3630 and what it means to Arizona
  - PSIC and ADOA-ASET to take the lead in developing public safety broadband strategy and recommendations for the Governor's Office
  - PSIC to garner input and advice from PSCC, SIEC, AZ Broadband Program (ADOA-ASET), 9-1-1 Office (ADOA-ASET), DPS, AZDOHS and stakeholders statewide, in other states & at the Federal level in researching and developing recommendations
  - PSIC to serve as central point of contact to ensure that all interested parties get uniform and consistent information about our processes and plans and that we become aware of all interested parties

- Track NPSBN progress, in particular:
  - The Interoperability Board's minimum technical requirements for the NPSBN
  - First Net's progress on RAN planning
  - Input/decisions from other agencies such as the FCC, NTIA, DHS, OEC, etc.

- Work with the Arizona Public Safety community to advise the PSCC regarding State-wide standards for interoperability on the NPSBN

- Work with the Arizona Public Safety community to plan how Arizona will interact with the NPSBN

- Advise the PSIC Office on preparing a grant request under the State and Local Implementation Grant Program

- Provide input to the Statewide Communications Interoperability Plan (SCIP) update effort as it relates to broadband planning.

- Plan and prepare for the FirstNet RFP proposal by recommending minimum criteria based on Arizona's public safety needs.

- Perform the research and analysis required to provide substantive input on the Opt-In/Opt-Out decision.

- Work with the Digital Arizona project and 9-1-1 programs to assure integration and to identify synergies.

- Report back to the PSCC on progress and key recommendations.

Formation of the AZPSBN Workgroup

- **Approved**: We requested that the Public Safety Communications Advisory Commission (PSCC) direct the Public Safety Interoperable Communications (PSIC) office to establish the Arizona Public Safety Broadband Network (AZPSBN) Workgroup in order to provide advice and make recommendations to the PSCC on matters related to the National Public Safety Broadband Network (NPSBN) and the AZPSBN Project.

Q & A

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- http://www.azgita.gov/psic/meetings/2012/apr17/

  - Presentation: H.R. 3630 and the National Public Safety Broadband Network
    Handout: Establishment of the Arizona Public Safety Broadband Network (AzPSBN) Workgroup
    Handout: NCSWIC Broadband Memo: Nationwide Public Safety Broadband Network (NPSBN) – The SWIC Role
    Handout: National Public Safety Broadband Network Acronym List
    Broadband: http://www.azpsic.gov/library/broadband/

- Urgent Communications Webinar:
  - Anna Gomez: Deputy Assistant Secretary, NTIA
  - *Next Generation Communications: What Does It Mean To You?*

- Summary of H.R. 3630
  - Chris Essid: Director, Office of Emergency Communications
  - *Summary of the Nationwide Public Safety Broadband Network (NPSBN) Legislation*

- NCSWICS memo: The SWIC's role in the NPSBN (see handout)
  - Mark Grubb: Chair – National Council of SWICs (NCSWIC)

- The Governors role in the NPSBN (see handout)
  - Penny Rubow: Arkansas SWIC, reviewed by the NCSWIC Executive Committee

- APCO Tech Forum presentation
  - Andy Seybold: Vice-Chairman, APCO Broadband Committee
  - Broadband 101

- National Public Safety Telecommunications Council (NPSTC) Website – planned launch April 16, 2012
  - Clearing house for all things Public Safety Broadband
  - Public Safety Broadband Directory